

CLAIMS

I claim:

- 1 1. A device to remove kidney stones, comprising:
2 a handle having a distal end and a proximal end, the handle
3 having a central conduit extending therethrough;
4 a fiber optic port disposed on the proximal end of said
5 handle, the fiber optic port being in communication with said
6 central conduit;
7 first and second fluid conduits disposed within said
8 handle, each of the fluid conduits being in fluid communication
9 with said central conduit;
10 a retrieval basket assembly extending from the distal end
11 of said handle, the retrieval basket assembly having at least
12 one lumen in fluid communication with said central conduit.
- 1 2. The device to remove kidney stones according to claim
2 1, further comprising first and second fluid connectors disposed
3 on said handle, the first and second fluid connectors being in
4 fluid communication with said first and second fluid conduits,
5 respectively.

1 3. The device to remove kidney stones according to claim 1,
2 further comprising first and second fluid valves disposed inline
3 in said first and second fluid conduits, respectively.

1 4. The device to remove kidney stones according to claim 1,
2 further comprising an electrically operated fluid pump disposed
3 inline in one of said fluid conduits.

1 5. The device to remove kidney stones according to claim 4,
2 further comprising an electrical switch in electrical
3 communication with said fluid pump.

1 6. The device to remove kidney stones according to claim 4,
2 further comprising a power source in electrical communication
3 with said fluid pump.

1 7. The device to remove kidney stones according to claim
2 1, wherein said retrieval basket assembly comprises a sheath
3 having at least one lumen, the sheath extending from said
4 handle, the at least one lumen being in fluid communication with
5 said central conduit.

1 8. The device to remove kidney stones according to claim 7,
2 wherein said sheath has a distal end, a portion of the sheath at
3 the distal end being expandable.

1 9. The device to remove kidney stones according to claim 7,
2 wherein said retrieval basket assembly further comprises an
3 elongated member slidably disposed within said sheath, the
4 elongated member having a distal end.

1 10. The device to remove kidney stones according to claim
2 9, wherein said retrieval basket assembly further comprises a
3 basket disposed on the distal end of said elongated member.

1 11. The device to remove kidney stones according to claim 9,
2 wherein said elongated member comprises at least one lumen in
3 fluid communication with said central conduit.

1 12. A retrieval basket assembly, comprising:
2 a sheath having a proximal end and a distal end, the sheath
3 having at least one lumen, a portion of the distal end being
4 expandable in diameter;

5 an elongated member having a proximal end and a distal end,
6 the elongated member being slidably disposed in the lumen of
7 said sheath; and

8 a basket disposed on the distal end of said elongated
9 member.